AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

- 1. (Canceled)
- 2. (Currently Amended) The method in accordance with Claim [1] 40, comprising:

applying a torque density (torque per screw/axis distance³) of at least 7 Nm/cm³ to <u>each screw of</u> the extruder.

3. (Currently Amended) The method in accordance with Claim [1] 40, comprising:

applying a torque density (torque per screw/axis distance³) of at least 9 Nm/cm³ to <u>each screw of</u> the extruder.

- 4. (Currently Amended) The method in accordance with Claim [1] 40, wherein the Da/Di ratio is 1.5 to 1.63.
- 5. (Currently Amended) The method in accordance with Claim [1] $\underline{40}$, wherein the ratio for twin screw elements is $1500 < \text{Am}^3/\text{Vf}^2 < \underline{2030}$ $\underline{2020}$ and the ratio for triple screw elements is $3000 < \text{Am}^3/\text{Vf}^2 < 5090$.

- 6. (Currently Amended) The method in accordance with Claim [1] 40, wherein the product to be processed is a contaminated and/or humid polycondensate that is at least one of contaminated and moist.
- 7. (Original) The method in accordance with Claim 6, wherein the polycondensate to be processed is polyester.
- 8. (Original) The method in accordance with Claim 7, wherein the polycondensate to be processed is a polyester PET bottle recyclate.

9-14. (Canceled)

- 15. (Currently Amended) The method in accordance with Claim [13] <u>40</u>, wherein the elastomer is a powdery or granulated elastomer in which at least one filling agent has already been incorporated.
- 16. (Currently Amended) The method in accordance with Claim [1] 40, wherein the screw elements are provided with dense combs shanks are tightly intermeshing.

17. (Canceled)

18. (Currently Amended) The method in accordance with Claim [1] 40, comprising:

controlling the temperature of the core and the housing, wherein the extruder has a temperature-controllable core and a temperature-controllable housing which are both stationary.

- 19. (Currently Amended) The method in accordance with Claim 18, comprising controlling wherein the temperature of the core and [of] the housing are controlled separately.
- 20. (Original) The method in accordance with Claim 18, wherein the housing is divided into segments whose temperature is controlled separately.
- 21. (Currently Amended) The method in accordance with Claim [1] <u>40</u>, wherein the screws are disposed in a coronary annular configuration screw shanks are arranged in a ring.
- 22. (Currently Amended) The method in accordance with Claim 6, comprising during processing applying wherein during processing, the polycondensate is applied in a molten state and later hardening the polycondensate hardened, wherein a total period during which a temperature of the polycondensate is above a melting temperature of the polycondensate during processing is less than approx. 60 seconds.
- 23. (Currently Amended) The method in accordance with Claim 22, wherein [the] <u>a</u> total period during which the temperature of the polycondensate is

above the melting temperature of the polycondensate during processing is less than roughly 30 seconds.

- 24. (Original) The method in accordance with Claim 22, wherein a content of residual water in the melt exceeds 200 ppm.
- 25. (Currently Amended) The method in accordance with Claim 22, wherein, in [its] <u>an</u> initial form, the polycondensate is a bulk material with a bulk density in a range from 200 kg/m³ to 600 kg/m³.
- 26. (Original) The method in accordance with Claim 22, wherein the polycondensate is present as chips or chippings.
- 27. (Currently Amended) The method in accordance with Claim 22, comprising partially pre-drying wherein the polycondensate material is initially, partially pre-dried prior to application in a molten state.
- 28. (Currently Amended) The method in accordance with Claim 22, comprising:
- a degassing step during which volatile contaminations and/or decomposition products are removed from [a] the polycondensate melt.
- 29. (Original) The method in accordance with Claim 22, wherein the polycondensate is placed in the extruder in a solid state, the polycondensate is

heated to a temperature below a melting point, and the polycondensate is degassed and/or dried at a pressure below atmospheric pressure and/or while adding an inert gas.

- 30. (Original) The method in accordance with Claim 29, wherein a total time during which the polycondensate is in the molten state during the process comprises a first period during which the polycondensate remains in the extruder after application in the molten state and a second period during which the polycondensate, which is still in the molten state, is processed outside of the extruder.
- 31. (Original) The method in accordance with Claim 30, wherein a duration of the first period is less than approx. 15 seconds.
- 32. (Original) The method in accordance with Claim 30, wherein a duration of the first period is less than approx. 10 seconds.
- 33. (Original) The method in accordance with Claim 29, wherein processing of the molten polycondensate outside of the extruder includes filtering of the melt.
- 34. (Currently Amended) The method in accordance with Claim [29] 30, comprising wherein the processing of the molten polycondensate outside of the

extruder includes using a melt pump to process the molten polycondensate outside of the extruder.

35. (Currently Amended) The method in accordance with Claim 22, wherein upon hardening, the polycondensate is <u>further</u> processed to form a granulate made up of pellets.

36-39. (Canceled)

40. (New) A method for preparation of a product comprising: supplying the product to a multi-shaft extruder;

rotating at least four individually driven, self-cleaning screw shanks of the multi-shaft extruder in a common direction about their own axes, each screw shank being arranged in respective single bore holes, and each screw shank having a smooth surface, an outer diameter Da at a screw thread, and an inner diameter Di at a screw base; and

forming a process space having a lateral area Am formed by smooth bore hole surfaces and a free volume Vf formed between the screws and the bore hole surfaces;

wherein at least a portion of the process space has a ratio Am³/Vf² between 1020 and 3050 for two flighted screw elements at a Da/Di ratio of 1.3 to 1.7.

41. (New) The method in accordance with claim 40 wherein the product to be processed is an elastomer.